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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,884	06/25/2001	Ari Tourunen	324-010379-US(PAR)	1180
2512	7590	03/07/2005	EXAMINER	
PERMAN & GREEN 425 POST ROAD FAIRFIELD, CT 06824			MEHRA, INDER P	
			ART UNIT	PAPER NUMBER
			2666	

DATE MAILED: 03/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/888,884

Applicant(s)

TOURUNEN ET AL.

Examiner

Inder P Mehra

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,8,11 and 16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 2-7,9,10 and 12-15 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 September 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/4/01, 1/8/02
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This office action is in response to patent application dated: 6/25/01. Claims 1-16 are pending.

Claim Objections

2. Claim 2-7, 9-10, 12-16 are objected to because of the following informalities:
 - a. Claims 2-7 recite “a method” in line 1. This limitation is preceded by “a method” in independent claim 1 line 1. Change “a “ to “the” in claims 2-7.
 - b. Claim 2 recites “the compression methods of header fields”, whereas claim 1 line 6 recites “a compression method of header fields”. The limitations do not match. Similar problem exists in claim 7 line 3; claim 9 lines 3 and 6.
 - c. Claim 9 line 1 recites “a telecommunications system”. It is dependent from the claim 8, which recites “ a packet-switched telecommunications system”. The limitation “a telecommunications system” in claim 9 should be changed to “ the packet-switched telecommunications system”. Similar problem exists in claim 10.
 - d. Claims 12-16 recite limitations “a network element” in line 1. “a” should be changed to “the”, because this limitation is preceded “a network element” in line 1 of claim 11.
 - e. Claim 11 recites “which network” in line 2. Change “which” to “wherein”
Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Following claims have no antecedent basis:

- a. Claim 1 recites the limitation "the selected compression" in line 11.
- b. Claim 2 recites the limitation "the operational entity" in claim 2. Similar problem exists in claim 4 line 3; claim 9 line 5; claim 10 line 4; and claim 13 line 3.
- c. Claim 3 recites the limitation " the selected compression method" in line 4.
- d. Claim 8 recites the limitation " the compression method" in line 5.
- e. Claim 8 recites the limitation "the selected compression method" in line 10.
- f. Claim 16 recites the limitation "the at least one application" in line 8.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 8, 11 rejected under 35 U.S.C. 103(a) as being unpatentable over **Forslow** (US Patent No. 6,608,832), hereinafter, Forslow, in view of **Titmuss** (US Patent No. 6,522,883).

For claims 1, 8 11 and 16, Forslow discloses "a method of allocating data transmission

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resources (refer to “a base station controller (BSC) 34 which manages the allocation and deallocation of radio resources”, fig. 2, refer to col. 2 lines 50-55), in a packet-switched telecommunications system (51 in fig. 2) including a terminal 12 and a fixed network 35 (PSTN, refer to col. 2 lines 18-20 and lines 60-63), to which an operational entity defined for defining resources for a radio bearer (refer to “Mobile communication resources for the selected bearer and corresponding quality of service parameters may be reserved in advance for each application flow (the resource reservation approach”, refer to col. 5 line 65-col. 6 line 15), the method comprising steps of:

- defining a compression method of header fields in data packets used on the radio bearer (Refer to “the GPRS modem routes each IP packet based on its header information. The subnetwork dependence convergence protocol (SNDCP) provides segmentation and compression of headers and data between the mobile station and the SGSN in the GPRS. The SNDCP is specifically developed to carry IP packets directly thereby avoiding PPP, refer to col. 12 lines 28-34), and
- defining the radio bearer resources for the terminal on the basis of an application used by the terminal said radio bearer such manner (Refer to “Mobile communication resources for the selected bearer and corresponding quality of service parameters may be reserved (defined) in advance for each application flow (the resource reservation approach, refer to col. 6 lines 7-15), that said resources also comprise the capacity required by the selected compression method of header fields in data

packets (Refer to “a Base Station System GPRS Protocol (BSSGP) is a flow control protocol, which allows the base station system to start and stop PDUs sent by the SGSN. This ensures that the BSS is not flooded by packets in case the radio link capacity is reduced”, refer to col. 4 lines 34-39).

Forslow does not disclose explicitly the following limitation, which is disclosed by Titmuss, as follows:

- “that said resources also comprise the capacity required by the selected compression method of header fields in data packets”, (Refer to “ technical capacities collectively available from the plurality of resources with which it is associated”, refer to col. 20 lines 35-40.

It would have been obvious to the person of ordinary skill in the art at the time of the invention to have resources comprising the capacity required by the selected compression method of header fields in data packets, as taught by Titmuss. The motivation to do so being that it provides optimization of transmission resources.

Allowable Subject Matter

7 Claims 2-7, 9-10, and 12-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 2-7, 9-10, and 12-15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Prior Art of Record

8 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Turner et al (US Patent No. 6,438,137) discloses a network communication system including a packet translator operatively connected between a tributary network port and a trunk network port.
- Keenan et al (US Patent No. 6,577,631) discloses a communication module serving as common switching equipment for work stations in a star topology.

Conclusion

9 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Inder Pal Mehra
Inder P Mehra
Examiner
Art Unit 2666

DM

DAVIS TON
PRIMARY EXAMINER